

1   **WHAT IS CLAIMED IS:**

- 2   1.     A method for finishing a metal article, comprising the steps of:
- 3         a)     placing said article in a vibratory finishing bowl and/or the like, in
- 4                 combination with:
- 5                 i.     a chemical solution capable of reacting with the surface of said
- 6                         metal article to convert it to a softer form, and
- 7                 ii.    a non-abrasive media
- 8         b)     agitating said article, media, and solution in said finishing bowl for a time
- 9                 sufficient to impart on said article a surface that is superfinished, isotropic,
- 10                and of specular brightness.
- 11   2.     The method of claim 1, wherein said non-abrasive media are made from a
- 12             material that includes a plastic.
- 13   3.     The method of claim 1, wherein said non-abrasive media are made from a
- 14             material that includes alumina bonded with an unsaturated polyester resin.
- 15   4.     The method of claims 1, wherein said non-abrasive media are made from a
- 16             material that includes a metal.
- 17   5.     The method of claim 1, wherein said non-abrasive media are made from a
- 18             material that includes stainless steel.
- 19   6.     The method of claim 1, wherein said non-abrasive media are made from a
- 20             material that includes 302 grade stainless steel.
- 21   7.     The method of claim 1, wherein the surface finish is superior to that produced by
- 22             non-abrasive ceramic media or other abrasive media.
- 23   8.     An article that is finished using the process of any of claims 1-6.
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